

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555829

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-86-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-50-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

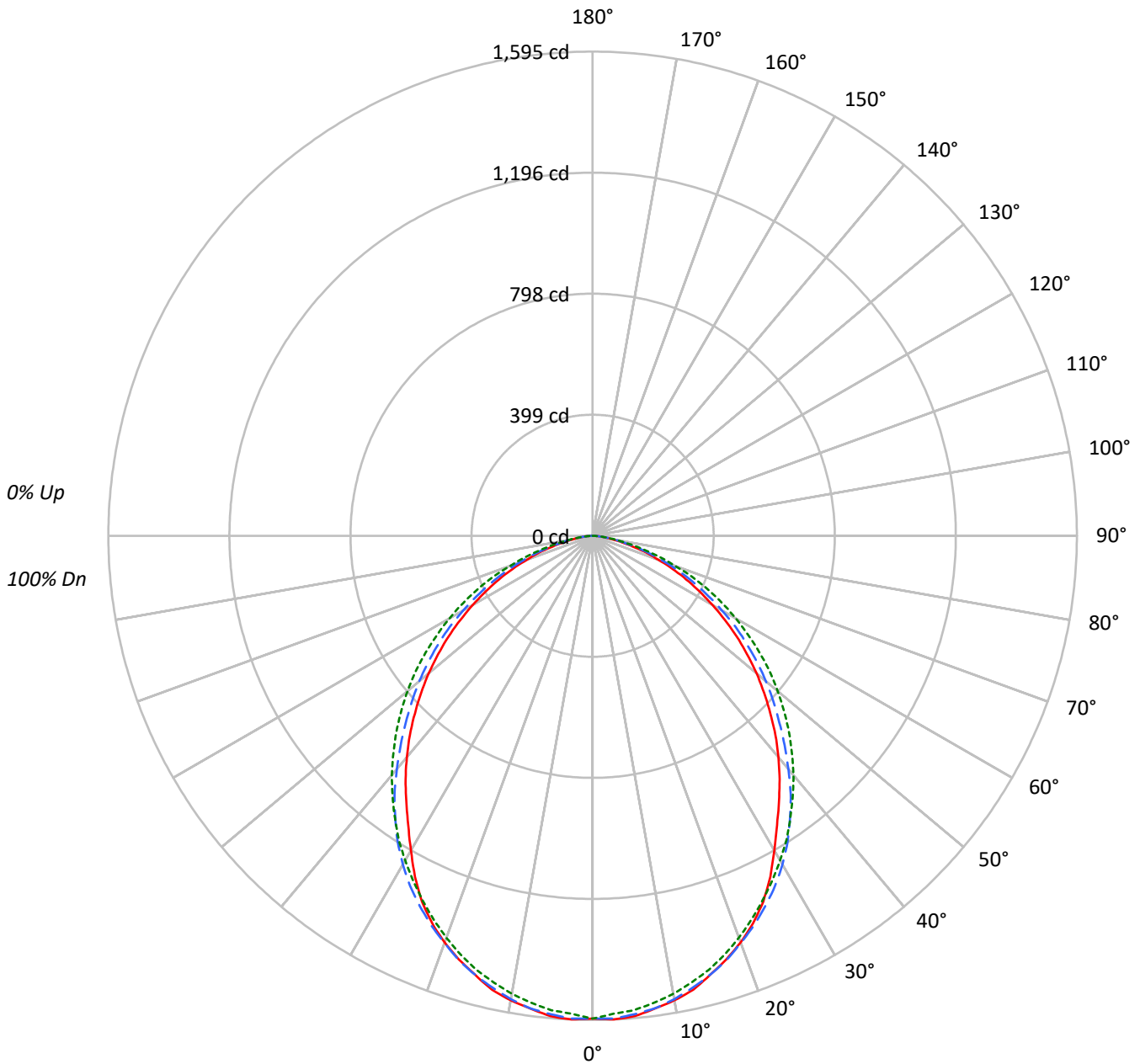
Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P555829

CATALOG NUMBER: FUSL-12-2-LD4-3LO-50-UNV-80-86-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8561	8561	8561
5°	8584	8547	8474
10°	8493	8469	8372
15°	8342	8342	8246
20°	8165	8176	8070
25°	7896	7994	7867
30°	7436	7770	7675
35°	7026	7448	7460
40°	6685	7045	7230
45°	6302	6619	6958
50°	5900	6237	6661
55°	5441	5803	6302
60°	4901	5295	5861
65°	4327	4708	5331
70°	3607	4009	4529
75°	2834	3202	3545
80°	2027	2253	2501
85°	1321	1321	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.1
10°-20°	420.7	11.4
20°-30°	614.8	16.7
30°-40°	697.9	19.0
40°-50°	673.7	18.3
50°-60°	555.8	15.1
60°-70°	370.1	10.1
70°-80°	165.6	4.5
80°-90°	29.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1185.3	32.2
0°-40°	1883.2	51.2
0°-60°	3112.7	84.6
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1589	1588	1582	1574	1569	150
15°	1497	1501	1497	1490	1480	422
25°	1330	1340	1346	1336	1325	609
35°	1069	1084	1134	1140	1135	670
45°	828	842	870	909	914	639
55°	580	590	618	653	672	518
65°	340	349	370	396	419	337
75°	136	144	154	161	170	149
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1594.9	1595.5	1591.9	1582.1	1576.0
5°	1588.8	1588.2	1582.1	1573.5	1568.6
7.5°	1571.1	1572.3	1570.5	1558.3	1551.5
10°	1554.0	1554.6	1549.7	1539.9	1532.0
12.5°	1532.0	1531.4	1524.6	1519.8	1506.9
15°	1497.1	1500.8	1497.1	1490.4	1480.0
17.5°	1463.5	1463.5	1466.0	1454.4	1446.4
20°	1425.6	1427.5	1427.5	1418.3	1409.1
22.5°	1381.7	1387.2	1389.0	1379.2	1368.2
25°	1329.7	1340.1	1346.2	1336.4	1324.8
27.5°	1266.8	1282.7	1301.0	1293.7	1280.8
30°	1196.5	1219.7	1250.3	1244.2	1235.0
32.5°	1129.9	1153.1	1195.3	1192.8	1187.9
35°	1069.4	1084.1	1133.6	1139.7	1135.4
37.5°	1011.9	1025.4	1071.8	1085.9	1082.2
40°	951.5	966.1	1002.8	1027.8	1029.1
42.5°	891.6	905.6	935.6	971.6	971.6
45°	828.0	842.1	869.6	909.3	914.2
47.5°	765.7	780.3	807.2	847.0	854.9
50°	704.6	718.0	744.9	783.4	795.6
52.5°	641.0	655.7	682.0	717.4	735.1
55°	579.9	589.7	618.4	652.6	671.6
57.5°	516.4	525.5	557.9	587.2	606.8
60°	455.3	466.9	491.9	521.9	544.5
62.5°	396.6	408.8	430.2	456.5	482.1
65°	339.8	348.9	369.7	396.0	418.6
67.5°	284.8	292.7	313.5	331.8	355.6
70°	229.2	239.5	254.8	272.5	287.8
72.5°	184.5	188.8	201.7	214.5	230.4
75°	136.3	143.6	154.0	161.3	170.5
77.5°	97.8	102.1	108.2	114.3	122.8
80°	65.4	67.2	72.7	73.9	80.7
82.5°	39.7	40.9	42.2	42.8	45.2
85°	21.4	21.4	21.4	20.2	20.2
87.5°	12.2	12.2	10.4	8.6	6.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)